


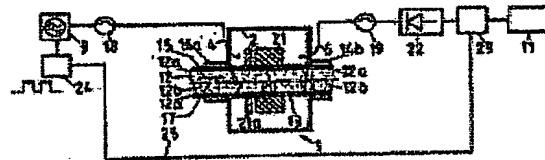
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**Detecting at least one characteristic of material by evaluating HF resonator tuning****Publication number:** DE19705260**Publication date:** 1997-08-21**Inventor:** MOELLER HENNING DR (DE); TOBIAS JOERG (DE);  
NOACK ANDREAS (DE)**Applicant:** HAUNI WERKE KOERBER & CO KG (DE)**Classification:****- International:** G01R27/26; A24C5/34; G01N22/00; G01N22/04;  
G01R27/26; A24C5/32; G01N22/00; (IPC1-7):  
G01N22/00; A24C5/34; G01R27/02; G01R27/26**- European:** A24C5/34B; G01N22/00**Application number:** DE19971005260 19970212**Priority number(s):** DE19971005260 19970212; DE19961006183 19960220**Also published as:** EP0791823 (A2)  
JP9325123 (A)  
EP0791823 (A3)  
CN1670515 (A)  
CN1186953 (A)

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The detection method includes the supply of microwaves to a HF resonator arrangement (1) which has a resonator (21). Microwaves with at least two different frequencies are supplied. The resonant frequency shifts are determined, by the comparison of the resonance curves of the resonator, uninfluenced and influenced by the material. The damping is determined by comparing the amplitudes of the resonance curves with the frequencies of the supplied microwaves. Microwaves of at least two frequencies are continuously supplied to the resonator. The frequencies of the microwaves are altered periodically.



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